



### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Mieher, et al.

Attorney Docket No.: KLA1P117X1A/P1151/2

Application No.: 10/785,396

Examiner: STOCK JR, GORDON J

Filed: February 23, 2004

Group: 2877

Title: APPARATUS AND METHODS FOR DETECTING OVERLAY ERRORS USING

**SCATTEROMETRY** 

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail on May 13, 2005 in an envelope addressed to the Commissioner for Patents, P.O. Box 1450

Alexandria, VA 22313-1450.

Signed:

INFORMATION DISCLOSURE STATEMENT

37 CFR §§1.56 AND 1.97(b)

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is: (i) filed within three (3) months of the filing date of the above-referenced application, (ii) believed to be filed before the mailing date of a first Office Action on the merits, or (iii) believed to be filed before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 500388 (Order No. KLA1P117X1A).

Respectfully submitted,

BEYER WEAVER & THOMAS, LLP

Mary Ramos Olynick Registration No. 42,963

P.O. Box 70250 Oakland, CA 94612-0250



Form 1449 (Modified)

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)

Atty Docket No.

KLA1P117X1A/P1151/2

Application No.: 10/785,396

Applicant:

Mieher, et al. Filing Date

February 23, 2004

Group 2877

### **U.S. Patent Documents and Publications**

Examiner					ind 1 dollcations		Sub-	Filing
Initial	No.	Patent No.	Date	Pat	entee	Class	class	Date
	A1	6,079,256	06/27/00	Bar	eket	73	105	12/07/98
	A2	5,608,526	03/04/97	Pin	wonka-Corle et al.	356	369	01/19/95
	A3	5,596,406	01/21/97	Ros	sencwaig et al.	356	327	08/15/95
	A4	6,462,818	10/08/02	Bar	eket	356	401	06/22/00
	A5	5,166,752	11/24/92	Spa	anier et al.	356	369	01/11/90
	A6	4,999,014	03/12/91	Go	ld et al.	356	382	05/04/89
	A7	6,590,656	07/08/03	Xu	et al.	356	369	09/21/01
	A8	6,611,330	08/26/03	Lee	e et al.	356	369	02/06/01
	A9	6,023,338	02/08/00	Bar	reket	356	401	07/12/96
	A10	4,820,055	04/11/89	Mu	iller	356	401	08/25/86
	A11	6,013,355	01/11/00	Che	en et al.	428	209	12/30/96
	A12	5,343,292	08/30/94	Brı	ieck et al.	356	363	10/19/90
	A13	6,160,622	12/12/00	Dir	ksen et al.	356	401	06/18/98
	A14	6,323,560	11/27/01	Naı	rimatsu et al.	257	798	01/27/00
	A15	4,631,416	12/23/86	Tru	ıtna, Jr.	250	548	12/19/83
	A16	4,828,392	05/09/89	No	mura et al.	356	401	03/10/86
	A17	5,465,148	11/07/95	Ma	tsumoto et al.	356	349	10/21/93
	A18	4,848,911	07/18/89	Ucl	hida et al.	356	356	06/11/87
	A19	6,197,679	03/06/01	Hat	ttori	438	636	03/23/99
	A20	5,172,190	12/15/92	Kai	iser	356	401	01/11/91
	A21	5,923,041	07/13/99	Cre	esswell et al.	250	491.1	04/25/95
	A22	4,167,337	09/11/79	Jae	risch et al.	356	354	06/13/77
	A23	6,420,791	07/16/02	Hu	ang et al.	257	797	11/23/99
	A24	6,342,735	01/29/02		lelli et al.	257	797	09/01/99
	A25	5,525,840	06/11/96	Tor	minaga	257	797	11/09/94
	A26	5,909,333	06/01/99	Bes	st et al.	360	51	06/18/97
Examiner					Date Considered		<u> </u>	

# Form 1449 (Modified)

Information Disclosure Statement By Applicant

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Mieher, et al.

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**U.S. Patent Documents and Publications** 

Examiner							Sub-	Filing
Initial	No.	Patent No.	Date	Pat	entee	Class	class	Date
	B1	5,912,983	06/15/99	Hir	atsuka	382	144	07/25/97
	B2	6,165,656	12/26/00	Tor	nimatu	430	22	04/20/99
	B3	6,522,406	02/18/03	Ro	vira et al.	356	369	06/07/01
	B4	5,883,710	07/10/95	Nik	coonahad et al.	356	237.2	06/10/95
	B5	6,081,325	06/27/00	Les	lie et al.	356	237.2	06/03/97
	В6	4,818,110	04/04/89	Dav	vidson	356	358	05/06/86
	В7	5,112,129	05/12/92	Dav	vidson et al.	356	359	03/02/90
	B8	5,889,593	02/30/99	Bar	eket	356	445	02/26/97
	В9	6,486,954	11/26/02	Mie	eher et al.	356	401	09/01/00
	B10	6,633,831	10/14/03	Nik	coonahad et al.	702	155	09/20/01
	B11	6,420,971	07/16/02	Lec	k et al.	340	542	06/22/00
	B12	6,342,735	01/29/02	Col	elli et al.	257	797	09/01/99
	B13	5,909,333	06/01/99	Bes	st et al.	360	51	06/18/97
	B14	6,323,560	11/27/01	Naı	rimatsu et al.	257	798	01/27/00
	B15	6,013,355	01/11/00	Che	en et al.	428	209	12/30/96
	B16	4,703,434	10/27/87	Bru	ınner	364	488	04/24/84
	B17	5,783,342	07/21/98	Yaı	mashita et al.	430	30	12/27/95
	B18	5,801,390	09/01/98	Shi	raishi	250	559.3	02/07/97
	B19	6,421,124	07/16/02	Ma	tsumoto et al.	356	401	12/02/98
	B20	5,182,455	01/26/93	Mu	raki	250	548	05/11/92
	B21	6,476,920	11/05/02	Sch	neiner et al.	356	630	06/26/00
	B22	5,189,494	02/23/93	Mu	raki	356	401	01/08/92
	B23	5,316,984	05/31/94	Lec	Leourx		250	03/25/93
	B24	5,327,221	07/05/94	Sai	toh et al.	356	355	07/29/92
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	B26	6,046,094	04/04/00	Jos	t et al.	438	400	07/29/98
Examiner					Date Considered			

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, ,	KLA1P117X1A/P1151/2	10/785,396
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,	Filing Date	Group
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### **U.S. Patent Documents and Publications**

Examiner							Sub-	Filing
Initial	No.	Patent No.	Date	Pate	entee	Class	class	Date
	C1	5,182,610	01/26/93	Shi	bata	356	349	04/19/91
	C2	6,153,886	11/28/00	Hag	giwara et al.	250	548	09/28/99
	C3	6,462,818	10/08/02	Bar	eket	356	401	06/22/00
	C4	5,114,235	05/19/92	Suc	la et.	356	401	07/17/90
	C5	5,414,514	05/09/95	Sm	ith et al.	356	363	06/01/93
	C6	4,103,998	08/01/78	Nal	kazawa et al.	356	152	07/19/76
	C7	5,340,992	08/23/94	Ma	tsugu et al.	250	548	11/18/92
	C8	6,077,756	06/20/00	Lin	et al.	438	401	04/24/98
	C9	6,128,089	10/03/00	Au	sschnitt et al.	356	401	06/28/98
	C10	6,177,330	01/23/01	Yas	suda	438	401	03/26/98
	C11	6,255,189	07/03/01	Mu	Muller et al.		401	10/19/99
	C12	4,200,395	04/29/80	Sm	Smith et al.		356	05/03/77
	C13	4,332,473	06/01/82	On	Ono		356	11/22/80
	C14	4,750,836	06/14/88	Ste	in	356	399	09/18/86
	C15	5,596,413	01/21/97	Sta	nton et al.	356	401	08/17/95
Ψ	C16	4,929,083	05/29/90	Bru	inner	356	400	03/20/89
	C17	2003/0020184	01/30/03	Bal	larin	257	797	05/21/02
	C18	2002/0149782	10/17/02	Ray	ymond	356	616	02/28/02
	C19	2002/0072001	06/13/02	Bro	own et al.	430	30	05/04/01
	C20	2002/0135875	09/26/02	Niu	et al.	359	564	02/27/01
	C21	2002/0158193	10/31/02	Sez	giner et al.	250	237	02/12/02
	C22	2002/0192577	12/19/02	Fay	et al.	430	22	06/15/01
Examiner					Date Considered			_

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Foreign Patent or Published Foreign Patent Application

	Document	Publication	Country or		Sub-	Trans	lation
No.	No.	Date	Patent Office	Class	class	Yes	No
D1	WO/9956174	04.11.99	WIPO	G03B	27/42	X	
D2	11-86332	3.30.99	JAPAN	G11B	7/135		X
D3	JP 60-126881	86.07.06	JAPAN	H01S	3/18		X
D4	JP 63-248804	10.17.88	JAPAN	C08F	10/00		X
D5	WO/85/04266	26.09.85	WIPO	G03B	41/00	X	
D6	WO/95/02200	19.01.95	WIPO	G02B	5/18	X	
D7	WO03042629	22.05.03	WIPO	G01B	11/00	X	
D8	WO/03054475	03.07.03	WIPO	G01B	11/06	X	
D9	WO/0218871	07.03.02	WIPO	G01B	11/27	X	
D10	WO 02/065545	22.08.02	WIPO	H01L	21/66	X	
D11	WO/0215238	21.02.02	WIPO	H01L	21/00	X	
D12	WO 01/97279	20.12.01	WIPO	H01L	21/66	X	
D13	WO 02/35300	02.05.02	WIPO	G05B	19/00	X	
D14	WO 02/25723	28.03.02	WIPO	H01L	21/66	X	
D15	WO 99/45340	10.09.99	WIPO	G01B	11/02	X	
D16	WO 0250509	27.06.02	WIPO	G01N		X	
D17	WO	03.01.03	WIPO	G03F	G03F	X	
	03/001297						
D18	WO	24.10.02	WIPO	G01B	11/00	X	
	02/084213						
D19	WO02/25708	28.03.02	WIPO	H01L	21/00		
D20	WO01/84382	08.11.01	WIPO	G06F	17/50	X	
•			Date Considered				
	D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18	No. No. D1 WO/9956174 D2 11-86332 D3 JP 60-126881 D4 JP 63-248804 D5 WO/85/04266 D6 WO/95/02200 D7 WO03042629 D8 WO/03054475 D9 WO/0218871 D10 WO 02/065545 D11 WO/0215238 D12 WO 01/97279 D13 WO 02/35300 D14 WO 02/35300 D14 WO 02/25723 D15 WO 99/45340 D16 WO 0250509 D17 WO 03/001297 D18 WO 02/084213 D19 WO02/25708 D20 WO01/84382	No.         Date           D1         WO/9956174         04.11.99           D2         11-86332         3.30.99           D3         JP 60-126881         86.07.06           D4         JP 63-248804         10.17.88           D5         WO/85/04266         26.09.85           D6         WO/95/02200         19.01.95           D7         WO03042629         22.05.03           D8         WO/03054475         03.07.03           D9         WO/0218871         07.03.02           D10         WO 02/065545         22.08.02           D11         WO/0215238         21.02.02           D12         WO 01/97279         20.12.01           D13         WO 02/35300         02.05.02           D14         WO 02/25723         28.03.02           D15         WO 99/45340         10.09.99           D16         WO 0250509         27.06.02           D17         WO         03.01.03           03/001297         018         WO           D18         WO         24.10.02           02/084213         D19         WO02/25708         28.03.02           D20         WO01/84382         08.11.01 <td>No.         Date         Patent Office           D1         WO/9956174         04.11.99         WIPO           D2         11-86332         3.30.99         JAPAN           D3         JP 60-126881         86.07.06         JAPAN           D4         JP 63-248804         10.17.88         JAPAN           D5         WO/85/04266         26.09.85         WIPO           D6         WO/95/02200         19.01.95         WIPO           D7         WO03042629         22.05.03         WIPO           D8         WO/03054475         03.07.03         WIPO           D9         WO/0218871         07.03.02         WIPO           D10         WO 02/065545         22.08.02         WIPO           D11         WO/0215238         21.02.02         WIPO           D12         WO 01/97279         20.12.01         WIPO           D13         WO 02/25723         28.03.02         WIPO           D14         WO 02/25723         28.03.02         WIPO           D15         WO 99/45340         10.09.99         WIPO           D17         WO         03.01.03         WIPO           D18         WO         24.10.02         WIPO</td> <td>No.         Date         Patent Office         Class           D1         WO/9956174         04.11.99         WIPO         G03B           D2         11-86332         3.30.99         JAPAN         G11B           D3         JP 60-126881         86.07.06         JAPAN         H01S           D4         JP 63-248804         10.17.88         JAPAN         C08F           D5         WO/85/04266         26.09.85         WIPO         G03B           D6         WO/95/02200         19.01.95         WIPO         G02B           D7         WO03042629         22.05.03         WIPO         G01B           D8         WO/03054475         03.07.03         WIPO         G01B           D9         WO/0218871         07.03.02         WIPO         G01B           D10         WO 02/065545         22.08.02         WIPO         H01L           D11         WO/0215238         21.02.02         WIPO         H01L           D12         WO 01/97279         20.12.01         WIPO         G05B           D14         WO 02/25723         28.03.02         WIPO         H01L           D15         WO 99/45340         10.09.99         WIPO         G01B</td> <td>No.         Date         Patent Office         Class         class           D1         WO/9956174         04.11.99         WIPO         G03B         27/42           D2         11-86332         3.30.99         JAPAN         G11B         7/135           D3         JP 60-126881         86.07.06         JAPAN         H01S         3/18           D4         JP 63-248804         10.17.88         JAPAN         C08F         10/00           D5         WO/85/04266         26.09.85         WIPO         G03B         41/00           D6         WO/95/02200         19.01.95         WIPO         G02B         5/18           D7         WO03042629         22.05.03         WIPO         G01B         11/00           D8         WO/03054475         03.07.03         WIPO         G01B         11/06           D9         WO/0218871         07.03.02         WIPO         H01L         21/66           D11         WO/0215238         21.02.02         WIPO         H01L         21/66           D13         WO 02/35300         02.05.02         WIPO         H01L         21/66           D15         WO 99/45340         10.09.99         WIPO         G01B</td> <td>No.         Date         Patent Office         Class         Class         Yes           D1         WO/9956174         04.11.99         WIPO         G03B         27/42         X           D2         11-86332         3.30.99         JAPAN         G11B         7/135           D3         JP 60-126881         86.07.06         JAPAN         H01S         3/18           D4         JP 63-248804         10.17.88         JAPAN         C08F         10/00           D5         WO/85/04266         26.09.85         WIPO         G03B         41/00         X           D6         WO/95/02200         19.01.95         WIPO         G02B         5/18         X           D7         WO03042629         22.05.03         WIPO         G01B         11/00         X           D8         WO/03054475         03.07.03         WIPO         G01B         11/06         X           D9         WO/0218871         07.03.02         WIPO         H01L         21/66         X           D10         WO 02/065545         22.08.02         WIPO         H01L         21/66         X           D12         WO 01/97279         20.12.01         WIPO         H01L         21</td>	No.         Date         Patent Office           D1         WO/9956174         04.11.99         WIPO           D2         11-86332         3.30.99         JAPAN           D3         JP 60-126881         86.07.06         JAPAN           D4         JP 63-248804         10.17.88         JAPAN           D5         WO/85/04266         26.09.85         WIPO           D6         WO/95/02200         19.01.95         WIPO           D7         WO03042629         22.05.03         WIPO           D8         WO/03054475         03.07.03         WIPO           D9         WO/0218871         07.03.02         WIPO           D10         WO 02/065545         22.08.02         WIPO           D11         WO/0215238         21.02.02         WIPO           D12         WO 01/97279         20.12.01         WIPO           D13         WO 02/25723         28.03.02         WIPO           D14         WO 02/25723         28.03.02         WIPO           D15         WO 99/45340         10.09.99         WIPO           D17         WO         03.01.03         WIPO           D18         WO         24.10.02         WIPO	No.         Date         Patent Office         Class           D1         WO/9956174         04.11.99         WIPO         G03B           D2         11-86332         3.30.99         JAPAN         G11B           D3         JP 60-126881         86.07.06         JAPAN         H01S           D4         JP 63-248804         10.17.88         JAPAN         C08F           D5         WO/85/04266         26.09.85         WIPO         G03B           D6         WO/95/02200         19.01.95         WIPO         G02B           D7         WO03042629         22.05.03         WIPO         G01B           D8         WO/03054475         03.07.03         WIPO         G01B           D9         WO/0218871         07.03.02         WIPO         G01B           D10         WO 02/065545         22.08.02         WIPO         H01L           D11         WO/0215238         21.02.02         WIPO         H01L           D12         WO 01/97279         20.12.01         WIPO         G05B           D14         WO 02/25723         28.03.02         WIPO         H01L           D15         WO 99/45340         10.09.99         WIPO         G01B	No.         Date         Patent Office         Class         class           D1         WO/9956174         04.11.99         WIPO         G03B         27/42           D2         11-86332         3.30.99         JAPAN         G11B         7/135           D3         JP 60-126881         86.07.06         JAPAN         H01S         3/18           D4         JP 63-248804         10.17.88         JAPAN         C08F         10/00           D5         WO/85/04266         26.09.85         WIPO         G03B         41/00           D6         WO/95/02200         19.01.95         WIPO         G02B         5/18           D7         WO03042629         22.05.03         WIPO         G01B         11/00           D8         WO/03054475         03.07.03         WIPO         G01B         11/06           D9         WO/0218871         07.03.02         WIPO         H01L         21/66           D11         WO/0215238         21.02.02         WIPO         H01L         21/66           D13         WO 02/35300         02.05.02         WIPO         H01L         21/66           D15         WO 99/45340         10.09.99         WIPO         G01B	No.         Date         Patent Office         Class         Class         Yes           D1         WO/9956174         04.11.99         WIPO         G03B         27/42         X           D2         11-86332         3.30.99         JAPAN         G11B         7/135           D3         JP 60-126881         86.07.06         JAPAN         H01S         3/18           D4         JP 63-248804         10.17.88         JAPAN         C08F         10/00           D5         WO/85/04266         26.09.85         WIPO         G03B         41/00         X           D6         WO/95/02200         19.01.95         WIPO         G02B         5/18         X           D7         WO03042629         22.05.03         WIPO         G01B         11/00         X           D8         WO/03054475         03.07.03         WIPO         G01B         11/06         X           D9         WO/0218871         07.03.02         WIPO         H01L         21/66         X           D10         WO 02/065545         22.08.02         WIPO         H01L         21/66         X           D12         WO 01/97279         20.12.01         WIPO         H01L         21

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#### **Other Documents**

		Other Documents
Examiner		
Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	F1	TDB, "Phase-Sensitive Overlay Analysis Spectrometry," IBM Technical
		Disclosure Bulletin, March 1990. pp 170-174 www.delphion.com
	F2	TDB, "Interferometric Method of Checking the Overlay Accuracy in
,	Ì	Photolitho Graphic Exposure Processes." IBM Technical Disclosure Bulletin,
		March 1990. pp 214-217. www.delphion.com
	F3	TDB, "Mask Overlay Determination" IBM Technical Disclosure Bulletin,
		December 1978, pp 272-2773. www.delphion.com
	F4	TDB, "Interferometric Measurement System for Overlay Measurement in
		Lithographic Processes", February 1994, pp535-536
	F5	Sang-Man Bae, et al., "Performance of New Overlay Measurement
		Mark,"424/SPIE Vol. 2725
	F6	V.I. Arkipov, "Kinetics of the Diffraction Efficiency of Light-Induced
		Dynamic Gratings in Layers of Disordered Semiconductors", Moscow
		Engineering-Physics Institute Submitted February 14, 1992; Quantum
		Electron November 1993. 1994 American Institute of Physics
	F7	Joseph C. Pellegrini, et al., "Super Sparse Overlay Sampling Plans: An
		Evaluation of Methods and Algorithms for Optimizing Overlay Quality
		Control and Metrology Tool Throughput", SPIE Vol. 3677-0277-786X
	F8	V.C. Jaiprakash and C. J. Gould, "Comparison Optical, SEM, and AFM
		Overlay Measurement, SPIE Vol. 3677-0277-786X
Examiner	*	Date Considered

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## Other Documents

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Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	G1	Ya V. Fattakhov, "Formation of Periodic Diffraction Structures at
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	G2	D.G. Papazoglou, et al., "Photorefractive Optical Properties of Volume Phase
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	G3	Kenneth W. Tobin, et al. "Automatic Classification of Spatial Signatures on
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	G6	Young-Chang Kim, et al. "Automatic In-Situ Focus Monitor Using Line
		Shortening Effect", Journal: Proceedings of the SPIE, vol. 3677, pt.1-2, p.
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		Variable Coherence Capable Photo Steppers Utilizing the Phase Shift Focus
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Form 1449 (Modified)	Atty Docket No.	Application No.:
	KLA1P117X1A/P1151/2	10/785,396
Information Disclosure	Applicant:	
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		726-40.
	H3	Norio Uchida, et al. "A Mask-to-Wafer* Alignment and Gap Setting Method
		for X-Ray Lithography Using Gratings", Journal: Journal of Vacuum Science
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		Wafers Using an Advanced Optimization Scheme" Abstract. First
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		Inst. Phys. Conf. Ser. No. 69. Paper presented at ESSDERC/SSSDT 1983,
		Canterbury 13-16 Sept. 1983.
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